This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-27 (canceled)

Claim 28. (currently amended) A process for producing ~~a~~ crystalline energetic materials, comprising:

preparing a crystallis<u>z</u>ing mixture comprising a solvent and a ~~raw~~ <u>crystallisable</u> energetic material selected from the group consisting of ~~HNF~~ <u>hydrazinium nitroformate</u>, CL-20, ADN, AP, RDX, HMX and PETN;

subjecting the crystallis<u>z</u>ing mixture to ultrasonic vibration having a frequency of between 10 and 100 kHz and an amplitude of between 0.4 and 30 μm ~~during crystallization~~; and

harvesting a crystalline energetic material after ~~the~~ crystallization,

~~wherein the ultrasonic vibration results in a zone of ultrasonic vibration in the crystallising mixture, wherein the crystallising mixture is stirred during crystallization and is passing through the zone of ultrasonic vibration continuously, and wherein the crystalline energetic material has increased thermal stability and decreased sensitivity with respect to the raw energetic material~~ <u>wherein said crystalline energetic material has improved stability and decreased sensitivity compared to crystalline energetic material crystallized in the absence of said ultrasonic vibration.</u>

Claim 29. (currently amended) The process of claim 28, where<u>in</u> ~~the crystallization~~ <u>said process</u> is carried out at a temperature between 0°C and 100°C.

Claim 30. (currently amended) The process of claim 29, wherein ~~the crystallization~~ said process is carried out at a temperature between 15°C and 75°C.

Claim 31. (currently amended) A process for producing crystalline ~~HNF~~ hydrazinium nitroformate, comprising:

preparing a crystalliszing mixture ~~of raw HNF and methanol~~ comprising a solvent and hydrazinium nitroformate;

subjecting the crystalliszing mixture to ultrasonic vibration having a frequency of between 10 and 100 kHz and an amplitude of between 0.4 and 30 μm ~~during crystallization~~; and

harvesting crystalline ~~HNF~~ hydrazinium nitroformate after crystallization,

~~wherein the ultrasonic vibration results in a zone of ultrasonic vibration in the crystallising mixture, wherein the crystallising mixture is stirred during crystallization and is passing through the zone of ultrasonic vibration continuously, and wherein the crystalline HNF has increased thermal stability and decreased sensitivity with respect to the raw HNF~~ wherein said crystalline hydrazinium nitroformate has improved stability and decreased sensitivity compared to crystalline hydrazinium nitroformate crystallized in the absence of said ultrasonic vibration.

Claim 32. (currently amended) The process of claim 31, wherein ~~the crystallization~~ said process is carried out at a temperature between 0°C and 100°C.

Claim 33. (currently amended) The process of claim 32, wherein ~~the crystallization~~ said process is carried out at a temperature between 15°C and 75°C.